



# FACT SHEET

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## AIR FORCE SPACE COMMAND

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### *Space Warfare Center (SWC)*



#### SWC MISSION

In the fall of 1992, a Blue Ribbon Panel on Space recommended establishing a **Space Warfare Center (SWC)** to determine how space-based assets could more effectively enhance our combat capability.

The primary mission of the SWC is to develop and test concepts, applications, and tactics that enable theater warfighters to fully utilize the unique capabilities of space-based assets. The requirement is for these capabilities to be more timely and routine to the warfighters.

Individuals assigned to the SWC began arriving at the **Joint National Test Facility** in July 1993. The official dedication was on Dec. 8, 1993. In November 1995 the 576th Flight Test Squadron was added to the SWC.

The SWC has the responsibility for discovering and ensuring the timely delivery of new space and missile capabilities to the warfighter.

#### AE - Analysis and Engineering

AE promotes the understanding and effective use of space power through modeling, simulation and analysis of new ideas and concepts. A principal focus of the directorate is the development of the data, models and analysis tools required by Air Force Space Support Teams.

Currently, the directorate supports Air Combat Command's Blue Flag exercises by providing the missile threat and warning models necessary for the NAFs to exercise and evaluate their concepts of operations against theater missile attacks.

The directorate conducts operational analysis of AFSPC's surveillance and warning systems, and provides state-of-the-art astrodynamics expertise.

Finally, the directorate investigates and evaluates the usefulness of emerging space technology in meeting warfighters' requirements.

#### CT – Tactical Exploitation of National Capabilities

CT executes the Congressionally mandated Air Force Tactical Exploitation of National Capabilities (AF TENCAP) program. Its roles focus on three pillars: first is exploiting space systems' capabilities. This includes developing hardware and software to get space-derived information to the theater/tactical level--into aircraft, to special ops forces in the field, into the Air Operations Centers, as well as developing leading edge intelligence exploitation tools. The second pillar is influencing new space systems' design. By seeing what's required to modify present systems to meet warfighter requirements, as well as analyzing MAJCOMs' future requirements, CT directly influences the design and capabilities of future DoD space systems. The third pillar is advanced education and training accomplished by supporting exercises, contingency operations, and MAJCOM space integration centers

#### DO - Operations

DO brings space to the fight by focusing on integration of air, space and information operations to create aerospace power for warfighters.

The directorate is spearheading an effort to create a Space Aggressor Squadron modeled after the Aggressor Squadron at Nellis AFB, but with an

emphasis on conducting space "red force" operations. The squadron's goal is to increase awareness of threats from space and to improve our ability to defend against them.

The directorate is the focal point for tactics, techniques and procedures within AFSPC. They publish the Air Force Tactics, Techniques and Procedures (AFTTP) 3-1, Vol 28 Tactical Employment, Space. This is the first comprehensive volume on space for warfighters.

DO is the focal point for intelligence support and space training. DO provides assessment and threat intelligence to operational units for exercises, real-world contingencies and wartime operations. DO leads the Air Force in the development of space training courses providing a wide range of space curricula.

### **XR - Plans, Programs and Requirements**

XR provides the planning, programming, concept development, information system operations and support, security and resource support for the SWC. They develop and maintain the roadmap that guides SWC activities toward the goal of making space a routine part of mission planning.

The directorate provides financial, contract, manpower, logistics and personnel management for a \$45 million budget and 200 personnel. XR is responsible for the SWC C4I system architectures, plans, programs and budgets and is the focal point for information warfare and command and control protection efforts.

### **17th Test Squadron**

The mission of the 17th Test Squadron is to enhance AFSPC's support to the warfighter through testing and evaluation of space forces. The 17 TS is responsible for the planning, execution and reporting of all AFSPC's Force Development Evaluation Testing (FDE) of its space assets, including other command-directed tests of AFSPC forces.

The 17 TS is chartered to identify the operational effectiveness and suitability of AFSPC's space systems and to ensure unit-level testing follows standardized approaches and complies with AF guidance.

### **576th Flight Test Squadron**

The mission of the 576th Flight Test Squadron is to manage and conduct the JCS-directed Intercontinental Ballistic Missile (ICBM) FDE program as well as new and evolving test programs in support of our ICBM forces. This squadron has the sole responsibility for collecting, analyzing and reporting the data required to verify the accuracy and reliability of our deployed ICBMs. In addition, they produce test performance reports that provide the USSTRATCOM, Air Staff, AFSPC and AFMC with data to validate ICBM warfighting capabilities and future requirements.

### **Air Force Space Battlelab**

The mission of the Space Battlelab is to identify innovative space operations and logistics concepts and rapidly measure their potential for advancing the Air Force Core Competencies and joint warfighting.

Two flights perform the operations. The Concepts Flight solicits promising concepts from the Air Force community as a whole--not just the space community. Key interfaces include operational units, warfare centers, Air Force laboratories, AFMC Product Centers, industry and the national community. The concepts are reviewed for viability and contribution to advancing the Air Force Core Competencies. Concepts can be sent via e-mail ([spcbtlab@fafb.af.mil](mailto:spcbtlab@fafb.af.mil)) to the Space Battlelab.

The Measurements Flight uses modeling and simulation, wargaming, exercise evaluations and prototype demonstrations to rapidly measure the military worth of promising concepts.

### **INFORMATION**

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